



Form PTO-449

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RD29532-6

SERIAL NO.

10/626,990

Information Disclosure  
Statement by Applicant

(Use several sheets if necessary)

(37 cfr 1.98(b))

APPLICANT

Webb et al.

FILING DATE

07/25/03

GROUP

NYA

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MS</i>	5,414,151	05/09/95	Pressman et al.			
<i>MS</i>	5,428,075	06/27/95	Pressman et al.			
<i>MS</i>	5,932,731	8/1999	Goda et al.			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE*	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<i>MS</i>	JP 11-179210	07/06/99	Japan				X
<i>MS</i>	JP 11-246458	09/14/99	Japan				X

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.\*\*)


EXAMINER

DATE CONSIDERED

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(Form PTO-1449 [6-4])

\* Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

\*\* The place or publication refers to the name of the journal, magazine or other publication in which the article was published.... Notice of January 9, 1992, 1135 O.G. 13 to 25, 20.

<b>PTO-1449</b> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <b>LIST OF ITEMS</b> (Use several sheets if necessary)		<b>Attorney's Docket Number</b> RD29532-6		<b>Serial Number</b> 10/626990		
		<b>Name of Applicant</b> Webb et al.				
		<b>Filing Date</b> 07/25/2003		<b>Group</b> 1621		
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial	Document Number	Date	NAME	Class	Subclass	Filing Date If Appropriate
<i>MR</i>	2,607,776	08/19/1952	Vinton			
<i>MR</i>	2,667,489	01/26/1954	Fincke			
<i>MR</i>	2,775,620	12/25/1956	Williamson			
<i>MR</i>	2,831,799	04/22/1958	Coouradt et al.			
<i>MR</i>	3,037,052	05/29/1962	Bortnick et al.			
<i>MR</i>	3,049,568	08/14/1962	Apel et al.			
<i>MR</i>	3,153,001	10/13/1964	Apel et al.			
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<i>MR</i>	3,198,847	08/03/1965	Lanning			
<i>MR</i>	3,242,219	03/22/1966	Farnham et al.			
<i>MR</i>	3,367,979	02/06/1968	Harper et al.			
<i>MR</i>	3,394,089	07/23/1968	McNutt et al.			
<i>MR</i>	3,634,341	01/11/1972	Gammill et al.			
<i>MR</i>	3,639,663	02/01/1972	Ayad et al.			
<i>MR</i>	3,651,080	03/21/1972	Doebel et al.			
<i>MR</i>	3,760,006	09/18/1973	Gammill et al.			
<i>MR</i>	4,036,974	07/19/1977	Walker et al.			
<i>MR</i>	4,045,379	08/30/1977	Kwantes et al.			
<i>MR</i>	4,051,079	09/27/1977	Melby			
<i>MR</i>	4,053,522	10/11/1977	McClure et al.			
<i>MR</i>	4,059,705	11/22/1977	Walker			
<i>MR</i>	4,122,048	10/24/1978	Buchwalder et al.			
<i>MR</i>	4,123,542	10/31/1978	Walker			
<i>MR</i>	4,126,618	11/21/1978	Winter et al.			
<b>EXAMINER</b> <i>[Signature]</i>			<b>DATE CONSIDERED</b> <i>1/10/04</i>			
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<i>WZ</i>	4,177,350	12/04/1979	Zimigbi et al.			
<i>WZ</i>	4,191,843	3/4/1980	Kwantes et al.			
<i>WZ</i>	4,239,919	12/16/1980	Hairston			
<i>WZ</i>	4,294,995	10/13/1981	Faler et al.			
<i>WZ</i>	4,308,404	12/29/1981	Kwantes et al.			
<i>WZ</i>	4,308,405	12/29/1981	Kwantes			
<i>WZ</i>	4,315,023	02/09/1982	Partyka et al.			
<i>WZ</i>	4,346,247	08/24/1982	Faler et al.			
<i>WZ</i>	4,365,099	12/21/1982	Faler et al.			
<i>WZ</i>	4,369,293	01/18/1983	Heydenreich et al.			
<i>WZ</i>	4,391,997	07/05/1983	Mendiratta			
<i>WZ</i>	4,396,728	08/02/1983	Faler			
<i>WZ</i>	4,440,555	08/23/1983	Mendiratta			
<i>WZ</i>	4,419,495	12/06/1983	Davis			
<i>WZ</i>	4,423,252	12/27/1983	Maki et al.			
<i>WZ</i>	4,424,283	01/03/1984	Faler et al.			
<i>WZ</i>	4,439,545	03/27/1984	Aspisi et al.			
<i>WZ</i>	4,448,899	05/15/1984	Hass			
<i>WZ</i>	4,455,409	06/19/1984	Faler et al.			
<i>WZ</i>	4,478,956	10/23/1984	Maki et al.			
<i>WZ</i>	4,496,667	01/29/1985	Reichgott et al.			
<i>WZ</i>	4,535,084	08/13/1985	Lombardino et al.			
<i>WZ</i>	4,549,900	10/29/1985	Kramer et al.			
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<i>MS</i>	4,579,857	04/01/1986	Sherlock				
<i>MS</i>	4,579,862	04/01/1986	Manley et al.				
<i>MS</i>	4,584,383	04/22/1986	Parhi				
<i>MS</i>	4,584,416	04/22/1986	Pressman et al.				
<i>MS</i>	4,590,303	05/20/1986	Mendiratta				
<i>MS</i>	4,595,704	06/17/1986	Fazio				
<i>MS</i>	4,822,923	04/18/1989	Li				
<i>MS</i>	4,825,010	04/25/1989	Li				
<i>MS</i>	4,826,849	05/02/1989	Heinemann et al.				
<i>MS</i>	4,859,803	08/22/1989	Shaw				
<i>MS</i>	5,100,460	03/31/1992	Desbordes et al.				
<i>MS</i>	5,141,966	08/25/1992	Porath				
<i>MS</i>	5,212,206	05/18/1993	Rudolph et al.				
<i>MS</i>	5,284,981	02/08/1994	Rudolph et al.				
<i>MS</i>	5,212,206	05/18/1993	Rudolph et al.				
<i>MS</i>	5,296,609	03/22/1994	McCort et al.				
<i>MS</i>	5,414,152	05/09/1995	Cipullo				
<i>MS</i>	5,436,344	07/25/1995	Quallich				
<i>MS</i>	5,589,517	12/31/1996	Sugawara et al.				
<i>MS</i>	5,700,943	12/23/1997	Daines				
<i>MS</i>	5,756,781	05/26/1998	Sybert et al.				
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<i>MS</i>	5,785,823	07/28/1998	Meurer et al.				
<i>MS</i>	5,786,373	07/28/1998	Hartman et al.				
<i>MS</i>	5,789,628	08/04/1998	Auer et al.				
<b>EXAMINER</b> <i>[Signature]</i>				<b>DATE CONSIDERED</b> <i>11/05</i>			
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<i>MR</i>	5,914,431	06/22/1999	Fennhoff				
<i>MR</i>	5,929,249	07/27/1999	Hill et al.				
<i>MR</i>	5,939,494	08/17/1999	Wehmeyer et al.				
<i>MR</i>	5,973,103	10/26/1999	Silva et al.				
<i>MR</i>	6,013,845	01/11/2000	Allan et al.				
<i>MR</i>	6,020,385	02/01/2000	Halle et al.				
<i>MR</i>	6,114,539	09/05/2000	Jautelat et al.				
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<i>MR</i>	US 6,211,417 B1	04/03/2001	Fengler et al.				
<i>MR</i>	US 6,229,037 B1	05/08/2001	Okubo et al.				
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<i>MR</i>	US 6,288,284 B1	09/11/2001	Eek et al.				
<i>MR</i>	US 6,329,556 B1	12/11/2001	Sakura et al.				
<i>MR</i>	US 6,414,199 B1	07/02/2002	Saruwatari				
<i>MR</i>	US 6,414,200 B1	07/02/2002	Spivack et al.				
<i>MR</i>	US 6,534,686 B1	03/18/2003	Webb et al.				
<i>MR</i>	US 2002/0123656 A1	09/05/2002	Spivack				
<i>MR</i>	US 2003/0096939 A1	05/22/2003	Bodiger et al.				
<i>MR</i>	US 2003/0153792 A1	08/14/2003	Iwahara et al.				
<b>EXAMINER</b> <i>MR</i>				<b>DATE CONSIDERED</b> <i>11/04</i>			
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<b>FOREIGN PATENT DOCUMENTS</b>						
Examiner Initial	Document Number	Date	COUNTRY	Class	Subclass	TRANSLATION YES NO
[Signature]	EP 0 552 518 B1	13.09.95	European			NO
[Signature]	EP 1 371 623 A1	17.12.03	European			NO
[Signature]	WO 01/49640	12.07.01	International			YES
[Signature]	WO 97/08122	06.03.97	International			NO
[Signature]	EP 0 171 758 B1	08.08.85	European			NO
[Signature]	EP 1 160 229 A1	05.12.01	European			NO
[Signature]	EP 0 567 107 A1	22.04.93	European			NO
[Signature]	EP 0 421 210 A2	22.09.90	European			NO
[Signature]	EP 0 268 318 A1	29.10.87	European			NO
[Signature]	EP 0 243 546 A1	01.05.86	European			NO
<b>OTHER INFORMATION (Including author, title, date, pertinent)</b>						
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2000-128819 Dated 09.05.2000					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2000-281608 Dated 10.10.2000					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2001-286770 Dated 16.10.2001					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2001-288132 Dated 16.10.2001					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2002-226417 Dated 14.08.2002					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2002-255880 Dated 11.09.2002					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2003-055286 Dated 26.02.2003					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2003-190805 Dated 08.07.2003					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2003-226661 Dated 12.08.2003					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 2003-246760 Dated 02.09.2003					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 08-038910 Dated 13.02.1996					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 08-325185 Dated 10.12.1996					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 05-294875 Dated 09.11.1993					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 05-294876 Dated 09.11.1993					
[Signature]	Patent Abstracts of Japan: Japanese Publication Number 05-271132 Dated 19.10.1993					
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<b>OTHER INFORMATION</b> (including author, title, date, pertinent)			
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 10-314595 Dated 02.12.1998		
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 10-328573 Dated 15.12.1998		
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 11-124351 Dated 11.05.1999		
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 11-179210 Dated 06.07.1999		
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 11-246458 Dated 14.09.1999		
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<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 2002-255879 Dated 11.09.2002		
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<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 10-211434 Dated 11.08.1998		
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 10-218814 Dated 18.08.1998		
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 10-314595 Dated 02.12.98		
<i>Mr</i>	Patent Abstracts of Japan: Japanese Publication Number 57-085335 Dated 28.05.82		
<i>Mr</i>	EP 0249102 A3; Publication Date 1987-12-16 (DE 3619450) Abstract Only		
<i>Mr</i>	FR 2685323; Publication Date 1993-06-25 Abstract Only		
<i>Mr</i>	FR 2685221 Publication Date 1993-06-25 Abstract Only		
<i>Mr</i>	EP 0166696 Publication Date 1986-01-02 English Abstract (non-translated patent included)		
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OTHER INFORMATION (including author, title, date, pertinent)			
<i>WZ</i>	DE 19834951 Publication Date 1999-02-11 English Abstract (non-translated patent included)		
<i>WZ</i>	Chemical Abstract No. XP002195035 abstract for JP 08 325185 A (10 December 1996)		
<i>WZ</i>	Chemical Abstract No. XP002262268 abstract for "Preparation of lubricating oil additives from dimercaptothiadiazole" Journal of Industrial Engineering Chemistry, vol. 49, 1957		
<i>WZ</i>	Chemical Abstract No. XP002132228 (19 November 1990) abstract for JP 02 167268 A (27 June 1990)		
<i>WZ</i>	Chemical Abstract No. XP002271236 abstract for "Characteristics of the reaction of hemolytic and ionic addition of thiols to different vinyl derivatives of some imidazolethiones" TEZISY DOK. NAUCHN. SESS. KHIM. TEKHNOL. ORG. SOEDIN. SERY SERNISTYKH NEFTEI, 14 <sup>th</sup> (1976)		
<i>WZ</i>	Chemical Abstract No. XP002262269 abstract for "Polydentate SNXM (X=S,O,N) ligands by selective reduction of organosulfur heterocycles with tributyltin hydride" PHOSPHORUS, SULFUR AND SILICON AND THE RELATED ELEMENTS (1996)		
<i>WZ</i>	Chemical Abstract No. XP002271237 abstract for "Syntheses based on mercaptobenzothiazole, mercaptobenzoxazole and mercaptobenzimidazole. II. Reactions for 2-benzoxazolyl vinyl sulfide and 2-benzimidazolyl vinyl sulfide" IZVESTIYA AKADEMII NAUK SSSR, SERIYA KHIMICHESKAYA (1969)		
<i>WZ</i>	Chemical Abstract No. XP002271238 abstract for "Behavior of N,S-divinyl-2-mercaptobenzimidazole in a thiolation reaction" KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII (1975)		
<i>WZ</i>	Chemical Abstract, Vol. 66, no.13, 27 March 1967, No. XP002132227 abstract for "Syntheses based on 2-benzothiazolyl vinyl sulfide" ZHURNAL ORGANICHESKOI KHIMII (1966)		
<i>WZ</i>	Chemical Abstract No. XP002271239 abstract for "Determination of urinary 2-mercaptobenzothiazole (2-MBT), the main metabolite of 2-(thiocyanomethylthio) benzothiazole (TCMTB) in humans and rats" ARCHIVES OF TOXICOLOGY (1996)		
<i>WZ</i>	Chemical Abstract No. XP002271240 abstract for "Radical addition of thiols to vinyl derivatives for 4,5-diphenylimidazole -2- thione" KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII (1976)		
<i>WZ</i>	Chemical Abstract No. XP002271241 abstract for "Synthesis of a new class of polydentate ligands: [bis(2-imidazolyl)methyl]amino-thioether-thiols" INORGANICA CHIMICA ACTA (1984)		
<i>WZ</i>	Sellmann et al. "Transition metal complexes with sulfur ligands. 136. <sup>1</sup> enforced trans coordination of thiolate donors in electron rich iron, ruthenium, and nickel [M(L)(pyN <sub>2</sub> H <sub>2</sub> S <sub>2</sub> )] and [M(L)(pyS <sub>4</sub> )] complexes (L=CO, PPh <sub>3</sub> , DMSO) (pyN <sub>2</sub> H <sub>2</sub> S <sub>2</sub> <sup>2-</sup> =2,6-Bis(2-mercaptophenylamino)dimethylpyridine(2-); pyS <sub>4</sub> <sup>2-</sup> =2,6-Bis(2-mercaptophenylthio)dimethylpyridine(2-))" Inorg. Chem. 1999, 38, 5314-5322		
<i>WZ</i>	Nekola et al. "Thiofunctional Vanadium Complexes" Inorg. Chem., 2002, 41, 2379-2384		
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